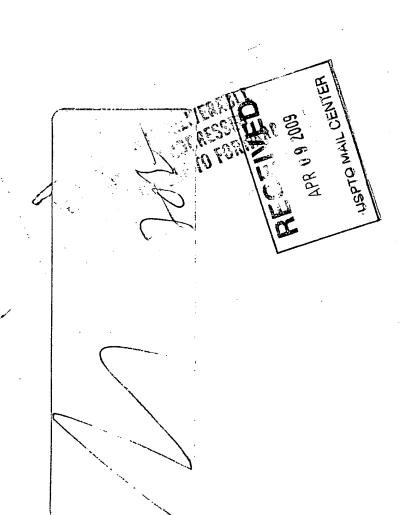
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APR 0 9 2009 W

NOTICE OF ALLOWANCE AND FEE(S) DUE

03/30/2009

Sandeep Jaggi LSI Logic Corporation Intellectual Property Law Department 1551 McCarthy Blvd., M/S D-106 Milpitas, CA 95035

EXAMINER			
PRICE,	NATHAN E		
ART UNIT	PAPER NUMBER		
2194			

DATE MAILED: 03/30/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/620,581	07/15/2003	Ekambaram Balaji	030773/2868P	8889

TITLE OF INVENTION: FLEXIBLE ARCHITECTURE COMPONENT (FAC) FOR EFFICIENT DATA INTEGRATION AND INFORMATION INTERCHANGE USING WEB SERVICES

APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/30/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Milpitas, CA 950			<u> </u>				(Depositor's name)
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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTOR	NEY DOCKET NO.	CONFIRMATION NO.
10/620,581	07/15/2003		Ekambaram Balaji		0:	30773/2868P	8889
ITLE OF INVENTIO NTERCHANGE USING		TECTURE COMPONE	ENT (FAC) FOR EFFICI	ENT DATA INT	EGRAT		·
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUI	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	06/30/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
PRICE, NA	ATHAN E	2194	719-313000				
Change of correspondence address or indication of "Fee Address" (37 FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.							
. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED ON	THE PATENT (print or type	ne)			
PLEASE NOTE: Uni	less an assignee is ident	ified below, no assignee	data will appear on the pa of a substitute for filing an	atent. If an assign	nee is ide	entified below, the do	cument has been filed for
(A) NAME OF ASSI			(B) RESIDENCE: (CITY		COUNT	RY)	
lease check the appropr	iate assignee category or	categories (will not be p	rinted on the patent):	Individual 🗆 Co	orporatio	on or other private grou	up entity Government
a. The following fee(s) are submitted: 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)							
☐ Issue Fee			A check is enclosed.				
Publication Fee (No small entity discount permitted) Payment by credit card. Form PTO-2038 is attached.			Taianau ar aradit anu				
Advance Order - # of Copies The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).							
. Change in Entity Sta	tus (from status indicate	d above)					
a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.							
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his collection of inform application. Confiden	nation is required by 37 Outiality is governed by 35	CFR 1.311. The informati 5 U.S.C. 122 and 37 CFR	ion is required to obtain or i	retain a benefit by timated to take 12	the publi minutes	c which is to file (and to complete, including	by the USPTO to process) g gathering, preparing, and he you require to complete the street of Complete P.O.
ubmitting the complete	d application form to the	e USPIO. Time will var	y depending upon the indiv	rigual case. Any co	omments	on the amount of the	et you require to complete

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/620,581	07/15/2003	Ekambaram Balaji	030773/2868P	8889
759	90 03/30/2009		EXAM	INER
Sandeep Jaggi	VO V3/30/2007		PRICE, NA	ATHAN E
LSI Logic Corporat	tion		ART UNIT	PAPER NUMBER
Intellectual Propert			2194	
		•	DATE MAILED: 03/30/200	9
1551 McCarthy Bly Milpitas, CA 95035		•	DATE MAILED: 03/30/200	9

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 702 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 702 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/620,581	BALAJI ET AL.	
Notice of Allowability	Examiner	Art Unit	
	NATHAN PRICE	2194	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not include will be mailed in due	ed course. THIS
1. \square This communication is responsive to <u>communications rece</u>	ived 08 January 200 and interview s	summary9.	
2. X The allowed claim(s) is/are 3.6.7.9.15.18.19.21.27-28 and	31-33 renumbered 1-13.		
 Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	e been received. e been received in Application No	-	tion from the
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the re-	quirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			IOTICE OF
 CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the state of the sheet in the sheet in	son's Patent Drawing Review (PTOs s Amendment / Comment or in the C .84(c)) should be written on the drawi	Office action of	e back) of
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 	ISIT OF BIOLOGICAL MATERIAL I FOR THE DEPOSIT OF BIOLOGIC	must be submitted. I AL MATERIAL.	Note the
Attachment(s)			
1. Notice of References Cited (PTO-892)	5. Notice of Informal F	• •	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	 Interview Summary Paper No./Mail Da 		
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	7. X Examiner's Amendi	ment/Comment	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. Examiner's Statement	ent of Reasons for Allo	wance
	9. Other		
	/Meng-Ai An/ Supervisory Patent Ex	aminer, Art Unit 219	5
	1 .		

Art Unit: 2194

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Stephen G. Sullivan (Reg. No. 38329) on 12 March 2009.

The claims have been amended as follows:

- 31. A method for providing data integration and exchange between a plurality of client applications over a network, wherein each of the client applications access a respective data source, the method comprising:
- (a) providing an adapter AP at each of the client applications that provides a first set of methods for the client applications to use to translate data in the respective data sources into XML format, wherein the data sources of each of the client applications store different types of data in different formats, wherein the data from a given data source is not directly accessible by the other client applications that utilize data of a different type or format;
- (b) modifying each of the client applications to invoke the first set of methods in the adapter API to convert the data in the respective data sources into XML format

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according to a registered schema definition and saving the XML format data from the respective data sources in XML files;

- (c) submitting each of the XML files to an import repository at a server, wherein the import repository is separate from a database at the server;
- (d) prior to storing data from the XML files in a database, validating each of the XML files in the import repository against a document type definition (DTD) corresponding to the respective data sources;
- (e) parsing the validated XML files in the import repository and storing name/value pairs in a database at the server according to a hierarchy specified by the corresponding DTD, thereby standardizing the data from the data sources of the client applications; and
- (f) including a second set of methods in the adapter API for the client applications that provides consumption logic and methods for automatically exporting data defined in a Web-based schema registry, from the database into the client applications using Web services.
- 32. A computer-readable medium containing program instructions for providing data integration and exchange between a plurality of client applications over a network, wherein each of the client applications access a respective data source, the program instructions for:
- (a) providing an adapter API at each of the client applications that provides a first set of methods for the client applications to use to translate data in the respective data

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sources into XML format, wherein the data sources of each of the client applications store different types of data in different formats, wherein the data from a given data source is not directly accessible by the other client applications that utilize data of a different type or format;

- (b) modifying each of the client applications to invoke the first set of methods in the adapter API to convert the data in the respective data sources into XML format according to a registered schema definition and saving the XML format data from the respective data sources in an XML file;
- (c) submitting each of the XML files from the client applications to an import repository at a server, wherein the import repository is separate from a database at the server;
- (d) prior to storing data from the XML files in a database, validating each of the XML files in the import repository against a document type definition (DTD) corresponding to the respective data sources;
- (e) parsing the validated XML files in the import repository and storing name/value pairs in a database at the server according to a hierarchy specified by the corresponding DTD, thereby standardizing the data from the data sources of the client applications; and
- (f) including a second set of methods in the adapter API for the client applications that provides consumption logic and methods for automatically exporting data defined in a Web-based schema registry, from the database into the client applications using Web services.

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33. A data integration system, comprising:

a network;

a server coupled to the network, the server including a schema registry, an import repository, an XML loader, a database, and a published adapter API at each of the client applications that provides a first set of methods for translating data in respective data source into XML format; and

a plurality of client applications coupled to the network and in communication with the server, wherein each of the client applications access the respective data source, and wherein the data sources of each of the client applications store different types of data in different formats, wherein the data from a given data source is not directly accessible by the other client applications that utilize data of a different type or format, and

wherein at least a portion of the client applications includes a corresponding schema definition and document type definition (DTD) registered with the schema registry, and the portion of the client applications includes generation logic for making calls to the first set of methods in the adapter API, such that data in the respective data sources are converted into XML format according to the corresponding schema definition and stored in XML files,

wherein each of the XML files is submitted to the import repository at the server, wherein the import repository is separate from a database at the server, wherein each of the XML files in the import repository is validated against the corresponding DTD

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prior to storing data from the XML files in a database, and wherein the XML loader parses the validated XML files in the import reposition and stores name/value pairs in the database at the server according to a hierarchy specified by the corresponding DTD, thereby standardizing the data from the data sources of the client applications;

wherein the adapter API further includes a second set of methods for the client applications that that provides consumption logic and methods for automatically exporting data defined in the schema registry, from the database into the client applications using Web services.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NATHAN PRICE whose telephone number is (571)272-4196. The examiner can normally be reached on 8:30am - 5:00pm, Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Meng-Ai An/ Supervisory Patent Examiner, Art Unit 2195 NP

	Application No.	Applicant(s)
Examiner-Initiated Interview Summary	10/620,581	BALAJI ET AL.
Examiner-initiated interview Summary	Examiner	Art Unit
	NATHAN PRICE	2194
All Participants:	Status of Application:	
(1) Stephen G. Sullivan (Reg. No. 38329).	(3)	
(2) <u>NATHAN PRICE</u> .	(4)	
Date of Interview: 12 March 2009	Time:	
Type of Interview: ☐ Telephonic ☐ Video Conference ☐ Personal (Copy given to: ☐ Applicant ☐ Applicate ☐ Exhibit Shown or Demonstrated: ☐ Yes ☐ No If Yes, provide a brief description:	ant's representative)	
Part I.		
Rejection(s) discussed: none		
Claims discussed: 2, 14, 26, 31, 32 and 33.		
Prior art documents discussed: none		
Part II.		
SUBSTANCE OF INTERVIEW DESCRIBING THE GENE Applicant's representative approved an Examiner's amendment the case allowable.		
Part III.		
 ☑ It is not necessary for applicant to provide a separate directly resulted in the allowance of the application. The of the interview in the Notice of Allowability. ☐ It is not necessary for applicant to provide a separate did not result in resolution of all issues. A brief summar 	e examiner will provide a writt record of the substance of the	en summary of the substance interview, since the interview
		,
/Meng-Ai An/ Supervisory Patent Examiner, Art Unit 2195		
	Applicant/Applicant's Representa	tive Signature – if appropriate)